

FIGURE 1A

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*      ++ +      +      +      +      +      +      +      +      +      +      +      +      +      +      +      +      +      +      +      +
SEQ ID NO:11  MSSSCIEEVSVPDDNWYRIANELLSRAGIAINGSAPADIRVKNPDPFFKRVLQEGSLGLGESYMDGWWECD      ++ +      +
SEQ ID NO:02  MVAASVAERAYEAAT--RSALVALERNLI-----PDAVTRR-----LTRL--L-----LAQRLRQGYLPSA      +
SEQ ID NO:04  M--EGMMQLAYDATV--KMLLSALERLL-----PDAVTRR-----LTRL--L-----LATRLRSSNTSS      +
1
*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
SEQ ID NO:11  RLDMFFSKVLRAGLENQLPHHFKDTLRIAGARLFLNQSKKRAWIVGKEHYDLGNDLFSRMLDPFMQYSCA      +
SEQ ID NO:02  PLQL-----QQL-LQFVHSL-----EMPIAIEYDKAK-----AQHYELPTTFFKLVGKLNLYSSC      +
SEQ ID NO:04  DLQL-----SHL-QHFAHSLQ-----EMPIAINTKPK-----SQHYELPTAFFKLVGSLNLYSSC      +
71
*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
SEQ ID NO:11  YWKDADN-LESAQQAQAKLMICEKLQKPGMR      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
SEQ ID NO:02  YFPGDSSSTLEDAEVAMMDLYCERSKLQDGQS      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
SEQ ID NO:04  YFSSASMTLEDAEEAAMLKLYCERSNLTDGHT      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
141
*      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
SEQ ID NO:11  RCEGLD---VTILLQDYR-DLNDQFDRIVSVGMFEHVGPKNYDTYFVAVDRNLKPEGIFLLHTIGSKK-      +
SEQ ID NO:02  QCRDNELSNIEIIVADISKFEMERSFDRIVSIEMFEHM--KNYKSLKKISRWMKEDGLLFVHLFCHKAF      +
SEQ ID NO:04  KCRDLQLQNMNIIVADISTLEMEASYDRIFSIEFHEM--KNYKELLKKISRWMKEDSLLFVHYFCHKAF      +
211

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## FIGURE 1B

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+ + + + + * * * * + * * * * + * * * * + * * * * + * * * * + * * * * +
SEQ ID NO: 11      ---TDLNVDPWINKYIFPNGCLPSVRQIAQSSEPHFVMDWHNFAGDYDTTLMAWYER---FLAAWPE
SEQ ID NO: 02     PYHFEDKNDDDWITRYFFTGGTMPSANLLLYFQEDSVVDHWLVSGTHYARTSEEWLKRMDKSITSIRLI
SEQ ID NO: 04     AYHFEKDKNEDDWITRYFFGGTMPSANLLLYFQDDVTVINHWLVNGKHYSQTSEEWLKRMDDQRMTYIKPI
                                     281
                                     350

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++ + + + + + * + + + + + * + + + + + * + + + + + * + + + + +
SEQ ID NO: 11 IADNYS--ERFKRMFTY---YLNACAGAFRARDIQLWQVFSRGVENGRLVAR
SEQ ID NO: 02 FEETYGKESTTKWIA YWRTFFISVAELFGYNNGEWMVA-----HYLFRKK
SEQ ID NO: 04 MQSTYGNDSATKWTAYWRTFFISVAELFGYNNGEWMVA-----HFLFKKK
351 402

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FIGURE 2A

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*      **      *      *      *      *      *      *      *      *      *
SEQ ID NO: 02 MVAASVAERAYEAATRSALVALERNLIPDAVTRRLTRLLLAQRLRQGYLPS----APLQL
SEQ ID NO: 04 ME--GMMQLAYDATVKMLLSALERNLLPDAVTRRLTRILLATRLR----SSNTSSDLQL
SEQ ID NO: 06 MAMAARA--AYLAATRAALAAALERNALPDAVTRRLTRLLLAQRLRGLYLPSSSSSAPLHL
SEQ ID NO: 08 ME--GTMQLAYETVVKMLMLAALERNVLPDVITRRLTRLLLATRLR----SAYKPSSQLQL
SEQ ID NO: 10 MAAAAVAARAYEAAARSALAAALERNLLPDAVTRRLTRFLLAQRLRLGTLPS----APLQL
1
*      **      *      *      *      *      *      *      *      *      *
SEQ ID NO: 02 QLLQFVHSLEEMPIAETDKAKAQHYELPTFFKLVLGKNLKYSSCYFPGDSSTLEDAE
SEQ ID NO: 04 SHLQFHAHSLQEMPIAINTKPKSQHYELPTAFFKLVLGKNLKYSCCYFSSASMTLEDAE
SEQ ID NO: 06 HHLFFFHALEEMPIAETEKAKXQHYELPTFFKLVLGKNLKYSSCYFDESSTLEDAE
SEQ ID NO: 08 SDLLYFAHSLQEMPIAINTDKPKSQHYELPTAFFKLVLGKNLKYSCCYFSSASMTLDDAE
SEQ ID NO: 10 QDLLLFAHSLQEMPIAETDTAKTQHYELPTFFKLVLGKNLKYSSCYFPDDSSSTLEDAE
61
*      **      *      *      *      *      *      *      *      *      *
SEQ ID NO: 02 VAMMDLYCERSKQLQDGQS
SEQ ID NO: 04 EAMLKLYCERSNLTGDGHT
SEQ ID NO: 06 V
SEQ ID NO: 08 EAMLKLYCERSNLTGDGHT
SEQ ID NO: 10 VAMLELYCERAQLQDGQS
121
*      **      *      *      *      *      *      *      *      *      *
SEQ ID NO: 02 ILDVGGCGWG SLSLYIAKKYRNCVGTGICNSTTQKAFIEEQCR
SEQ ID NO: 04 VLDVGGCGWG SLALNIPKNYTNCRVTGICNSTTQKAYIEEKCR
SEQ ID NO: 06 VLDVGGCGWG SLALYIAKNYTNCRVTGICNSTTQKAYIEEKCR
SEQ ID NO: 08 ILDVGGCGWG SLSVYIAKKYRNCNITGICNSTTQKGFIEKQCR
180
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## FIGURE 2B

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* * * * *
SEQ ID NO: 02 DNELSNIEIIVADISKFEMERSFDRIIVSIEMFEHMKNYKSLKKISRWMMKEDGLLFVHLF
SEQ ID NO: 04 DLQLQNMNIIIVADISTLEMEASYDRIFSIEMFEHMKNYKELLKKISKWMKEDSLLFVHYF
SEQ ID NO: 06
SEQ ID NO: 08 DLQLQNLNIIIVADISTFEMETSYDRIFSIEMFEHMKNYKDLLKKISKWMKEDSLLFVHYF
SEQ ID NO: 10 ENELSNVEIIVADISKFEM
181
* * * * *
SEQ ID NO: 02 CHKAFYPYHFEDKNDDDDWITRYFFFTGGTGPSANLLLYFQEDVSVVDHWLVSGTHYARTSEE
SEQ ID NO: 04 CHKAFAYHFEDKNEDDWITRYFFSGGTGPSANLLLYFQDDVTVINHWLVNGKHYSQTSEE
SEQ ID NO: 06
SEQ ID NO: 08 CHKAFAYHFEDKNEDDWITRYFFFTGGTGPSANLLLY
241
SEQ ID NO: 10
300
* * * * *
SEQ ID NO: 02 WLKRMDKSITSIRLIFEETYGESTTKWLA YWRTFFISVAELFGYNNGDEWVAHYLFRKK
SEQ ID NO: 04 WLKRMDQRMITYIKPIMQSTYGNDSATKWTA YWRTFFISVAELFGYNNGEEWVAHFLFKKK
SEQ ID NO: 06
SEQ ID NO: 08
SEQ ID NO: 10
301
360
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